## Patent Claims

- 1. A wind turbine with a rotor (4), a generator (3) driven by it, which generates electrical power and delivers it to a power system (6), and a control unit (32) which controls the operation of the wind turbine and has a reactive-power control module (321), wherein the control unit (32) has a determining device (35) for a safe minimum active power and a limiting device (323) is provided which is connected to the determining device (35) and to the reactive-power control module (321) and interacts in such a manner that, at the most, as much reactive power is generated that the safe minimum active power is still available.
- The wind turbine as claimed in claim 1, wherein the determining device (35) has a speed reserve module (351).
- The wind turbine as claimed in claim 2, wherein the determining device (35) has a rotational acceleration module (352) and/or a blade pitch module (353).
- The wind turbine as claimed in one of claims 2 or 3, wherein the determining device (35) has a shock vibration damping module (356).
- 5. The wind turbine as claimed in claim 5, wherein the time constant of the shock vibration damping module (356) is less than 1/8 of a vibration damper for the normal operation.

- The wind turbine as claimed in one of the preceding claims, wherein a limit-value transgression module is provided for at least one of the modules.
- The wind turbine as claimed in claim 6, wherein the limit-value transgression module comprises a dynamic limit value and a static limit value.
- The wind turbine as claimed in one of the preceding claims, wherein the reactive-power control module (321) is constructed as state controller.
- The wind turbine as claimed in one of the preceding claims, wherein the determining device (35) has a state observer.
- 10. A method for controlling the operation of a wind turbine on a power system with a generator, wherein reactive power or reactive current, respectively, is fed into the power system in dependence on a voltage drop in the power system, including determining of a safe minimum active power required for safe continued operation and limiting the reactive power to such a value that at least the safe minimum active power is still generated.